AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (original) A method of forming copper features on a semiconductor substrate, comprising:

coating the substrate with a copper seed layer to form a composite; coating the composite with a resist; exposing the resist to actinic radiation;

developing the resist to expose a portion of the copper seed layer and form a patterned resist coating; and

plating copper to obtain copper features grown from the copper seed layer.

- 2. (original) The method of claim 1, further comprising: stripping the resist after plating the copper; forming a dielectric coating over the copper features; and removing a portion of the dielectric coating to expose the copper features.
- 3. (original) The method of claim 2, wherein the portion of the dielectric coating is removed by mechanical polishing.
- 4. (original) The method of claim 2, wherein the portion of the dielectric coating is removed by chemical-mechanical polishing.
- 5. (original) The method of claim 2, further comprising, prior to coating with the dielectric, coating the copper features with a diffusion barrier forming material.

6. (original) The method of claim 2, further comprising, prior to stripping the resist, planarizing the copper features and the patterned resist coating.

- 7. (original) The method of claim 1, further comprising after developing but prior to plating, trimming the patterned resist coating to increase a line width defined by an opening in the patterned resist coating.
- 8. (original) The method of claim 7, wherein trimming increases the line width by at least about 25%.
- 9. (original) A method of forming copper features on a semiconductor substrate, comprising:

coating the semiconductor substrate with a resist;

exposing the resist to actinic radiation;

developing the resist to form a patterned resist coating having openings;

forming a copper seed layer over the patterned resist coating and substrate to form a composite;

removing a portion of the copper seed layer outside of the openings;

plating copper to obtain copper features grown from the copper seed layer within the openings of the patterned resist coating.

10. (original) The method of claim 9, further comprising:

stripping the resist;

coating the copper and the exposed substrate with a dielectric; and removing a portion of the dielectric to expose the copper.

11. (original) The method of claim 10, further comprising, prior to coating with the dielectric, coating the copper with a diffusion barrier forming material.

12. (original) The method of claim 10, further comprising, prior to stripping the resist, planarizing the copper features and the resist.

- 13. (original) The method of claim 9, further comprising after developing but prior to plating, trimming the patterned resist coating to increase a line width defined by an opening in the patterned resist coating.
- 14. (original) The method of claim 13, wherein trimming increases the line width by at least about 25%.
 - 15. (cancelled)
 - 16. (cancelled)
 - 17. (cancelled)
- 18. (original) A method of forming copper features on a semiconductor substrate, comprising:

coating the substrate with a copper seed layer to form a composite; coating the composite with a resist;

exposing the resist to actinic radiation;

developing the resist to form a patterned resist coating having openings;

and

coating the resist with a dielectric that fills the openings;
polishing to remove dielectric outside the openings;
stripping the resist to expose a portion of the copper seed layer; and
plating copper to obtain copper features grown from the copper seed

layer.

19. (original) The method of claim 18, further comprising planarizing the copper features and the dielectric.

- 20. (original) The method of claim 18, further comprising trimming the dielectric prior to plating to increase a line width defined by an opening in the patterned resist coating.
- 21. (original) The method of claim 20, wherein trimming increases the line width by at least about 25%.
- 22. (original) A method of forming copper features on a semiconductor substrate, comprising:

coating the substrate with a copper seed layer to form a composite;

coating the composite with a resist;

exposing the resist to actinic radiation;

developing the resist to form a patterned resist coating having openings;

and

layer;

coating the patterned resist with a temporary coating that fills the openings in the patterned resist;

polishing to remove the temporary coating outside the openings in the patterned resist;

stripping the resist to expose a portion of the copper seed layer; and plating copper to obtain copper features grown from the copper seed

stripping the temporary coating; coating the copper features with a dielectric; and polishing to expose the copper features.

23. (original) The method of claim 22, further comprising trimming the temporary coating prior to plating to increase a line width defined by an opening in the temporary coating.

- 24. (original) The method of claim 20, wherein trimming increases the line width by at least about 25%.
- 25. (original) The method of claim 22, further comprising, prior to coating with the dielectric, coating the copper features with a diffusion barrier forming material.
- 26. (new) A method of forming copper features on a semiconductor substrate, comprising:

coating the substrate with a copper seed layer having a thickness of less than about 100 Å to form a composite;

coating the composite with a resist having a thickness from about 100 Å to about 20,000 Å;

exposing the resist to actinic radiation;

developing the resist to expose a portion of the copper seed layer and form a patterned resist coating; and

plating copper to obtain copper features grown from the copper seed layer.

27. (new) A method of forming copper features on a semiconductor substrate, comprising:

coating the substrate with a copper seed layer having a thickness of less than about 100 Å to form a composite;

coating the composite with a resist;

exposing the resist to actinic radiation;

developing the resist to expose a portion of the copper seed layer and form a patterned resist coating; and

plating copper to obtain copper features grown from the copper seed layer.

28. (new) The method of claim 27, wherein the resist has a thickness from about 500 $\mbox{\normalfont\AA}$ to about 10,000 $\mbox{\normalfont\AA}$.